

CLAIMS

1. A guide device for an exhaust gas turbocharger with a geometry which is variable, comprising:

guide blades for determining a momentum with which exhaust gas acts upon a turbine of the exhaust gas turbocharger,

blade levers which are connected to particularly assigned guide blades in a rotationally fixed manner, and

a setting ring in which the blade levers are mounted, the blade levers and the guide blades being rotated by rotation of the setting ring,

wherein the blade levers are mounted in the setting ring by a spring element.

2. The guide device for an exhaust gas turbocharger as claimed in Claim 1, wherein the spring element includes a first leg for a unilateral force actuation of one of the blade levers.

3. The guide device for an exhaust gas turbocharger as claimed in Claim 2, wherein the spring element additionally includes a second leg so that the one of the blade levers is acted upon on both sides.

4. The guide device for an exhaust gas turbocharger as claimed in Claim 3, wherein the first and second legs have different spring constants.

5. The guide device for an exhaust gas turbocharger as claimed in Claim 2, wherein the first leg of the spring element has a stop surface for a form-fitting force acting on the blade lever.

6. The guide device for an exhaust gas turbocharger as claimed in Claim 1, wherein the spring element includes a rotational angle limitation.

7. The guide device for an exhaust gas turbocharger as claimed in Claim 1, wherein the setting ring and the spring element are designed in one piece.

8. The guide device for an exhaust gas turbocharger as claimed in Claim 3, wherein one of the first and second legs of the spring element has a stop surface for a form-fitting force acting on the blade lever.

9. The guide device for an exhaust gas turbocharger as claimed in Claim 2, wherein the spring element includes a rotational angle limitation.

10. The guide device for an exhaust gas turbocharger as claimed in Claim 3, wherein the spring element includes a rotational angle limitation.

11. The guide device for an exhaust gas turbocharger as claimed in Claim 4, wherein the spring element includes a rotational angle limitation.

12. The guide device for an exhaust gas turbocharger as claimed in Claim 5, wherein the spring element includes a rotational angle limitation.

13. A process of operating a guide device for an exhaust gas turbocharger with a geometry which is variable, including guide blades for determining a momentum with which exhaust gas acts upon a turbine of the exhaust gas turbocharger, blade levers which are connected to particularly assigned guide blades in a rotationally fixed manner, a setting ring in which the blade levers are mounted, and a spring element by which the blade levers are mounted in the setting ring, comprising:

rotating the blade levers and the guide blades by rotation of the setting ring.

14. The process as claimed in Claim 13, wherein the spring element includes a first leg for a unilateral force actuation of one of the blade levers.

15. The process as claimed in Claim 14, wherein the spring element additionally includes a second leg so that the one of the blade levers is acted upon on both sides.

16. The process as claimed in Claim 15, wherein the first and second legs have different spring constants.

17. The process as claimed in Claim 14, wherein the first leg of the spring element has a stop surface for a form-fitting force acting on the blade lever.

18. The process as claimed in Claim 13, wherein the spring element includes a rotational angle limitation.

19. The process as claimed in Claim 13, wherein the setting ring and the spring element are designed in one piece.

20. The process as claimed in Claim 15, wherein one of the first and second legs of the spring element has a stop surface for a form-fitting force acting on the blade lever.